

MAP LEGEND

Buffer Area

Property Line (100ft Buffer)

North Symbol

Surface Water

Field Boundary

rck Rock Outcrop (25ft Buffer)

Severe Slope/Erosion

O Sink Hole (100ft Buffer)

---- Intermittent Stream (100ft Buffer)

Occupied Dwelling/Structures/Well (200ft Buffer)

Frequently Flooded Area/Drainage Way/Wet Spot

Public Roadway (10ft Buffer)

Road Map Hauling Route

OSR/Public Access Sites (400ft Buffer)

Public Water Supply/Additional Water Well (100ft Buffer)

VIKGINIA PULLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D.VI. I AND APPLICATION AGREEMENT	- BIOSOLIDS AND INDUSTRIAL	RESIDUALS
JARI ILVI I ANII APPI ILAJILIN AURECINEUL	· nwaveno and modalinat	NEGIDORE

• • • • • •	ICATION AGREEMENT -		
the Landowner in the event individual parcels identified	eement is made on <u>9/2//3</u> Note: Rend. INC., referminated in writing by either pof a sale of one or more parce in this agreement changes, the eive biosolids or industrial residuals.	ers, until ownership of all par- ose parcels for which owner	ceis changes. Il ownership or
Landowner: The Landowner is the owne the agricultural, silvicultural attached as Exhibit A.	r of record of the real property or reclamation sites identified	ر اocated in <u>Cumber/مرم below in Table 1 and identif</u>	✓ Virginia, which includes lied on the tax map(s) ✓ Virginia, which includes ✓
Table 1.: Parcels aut	horized to receive biosolids, w	rater treatment residuals or c	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
106 A7	106A8	106 A9	
☐ Additional parcels containing Lan	d Application Sites are identified on S	Supplement A (check if applicable)	
	e Landowner is the sole owne e Landowner is one of multipl		
within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permitte The Landowner has no oth notify the Permittee immediate.	wner sells or transfers all or p est date of biosolids application or transferee of the applical of the property transfer; and e of the sale within two weeks her agreements for land applical liately if conditions change support this agreement becomes in	n, the Landowner shaft: ole public access and crop n s following property transfer. ation on the fields identified ch that the fields are no long	nanagement restrictions no herein. The Landowner will ler available to the Permittee
incorrect. The Landowner hereby gra- agricultural sites identified inspections on the land ide purpose of determining co	ants permission to the Permitt above and in Exhibit A. The entified above, before, during mpliance with regulatory requ	ee to land apply residuals as Landowner also grants perm or after land application of po irements applicable to such	s specified below, on the hission for DEQ staff to conduct ermitted residuals for the application.
Yes You Y	es No	Yes No E	Other industrial sludges I Yes □ No River Rd Farmville ailing Address 2390/
Permittee:	ne Permittee, agrees to apply bio PA Permit Regulation and in amog application field by a person certi	solids and/or industrial residual unts not to exceed the rates ide fied in accordance with <u>§10.1-1</u>	
specifically prior to any partic	ular application to the Landowne	rer's designee of the proposed r's land. Notice shall include the	schedule for land application and ne source of residuals to be applied.
☐ I reviewed the document(s document(s) available to DE	s) assigning signatory authority to Q for review upon request. (Do n	the person signing for landow of check this box if the landowner s	ner above. I will make a copy of this igns this agreement)
Bill Burnett	Bill Burne	PO Bo	Blend, Inc. ox 38060
Permittee - Authorized Repres	entative Signature	Henri	co, VA 23231

Rev 9/14/2012

Printed Name

Permittee: _	Nutri-Blend.	INC	County or City: _	CUM ber/And
	Woodfin + ANN			

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids:
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

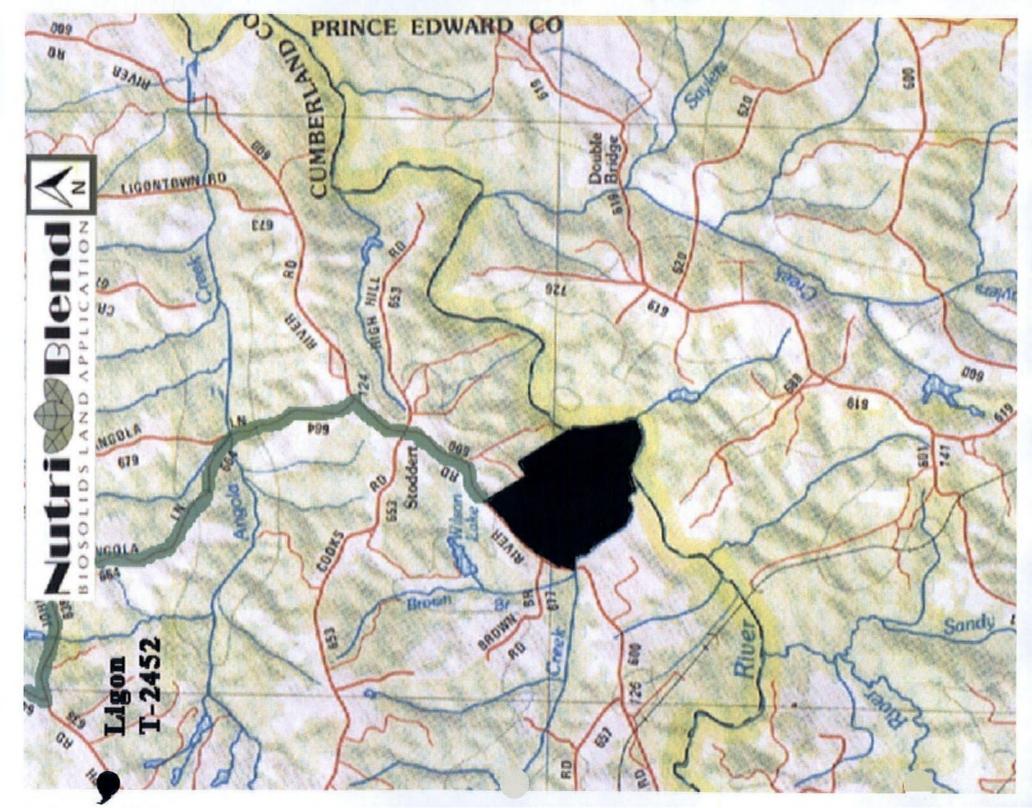
Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's for three years following the application of biosolids or industrial residuals which bear cadmium equal to dr/excepting 0.45 pounds/acre (0.5 kilograms/hectare).

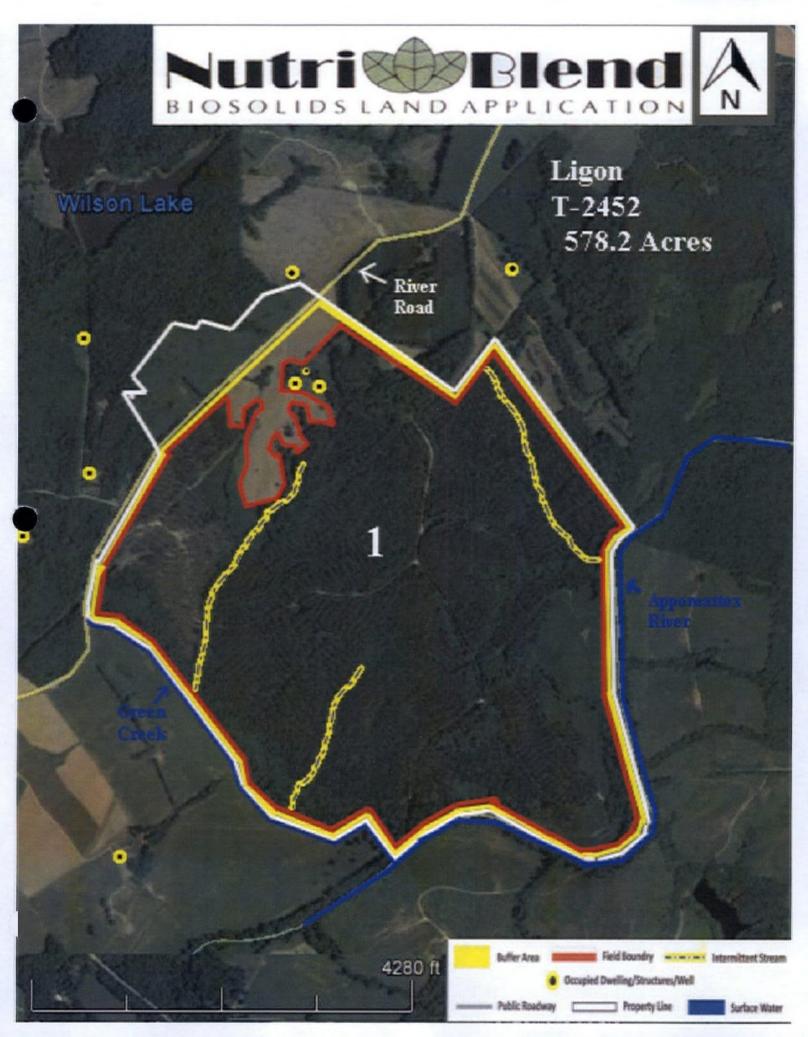
Landowner's Signature

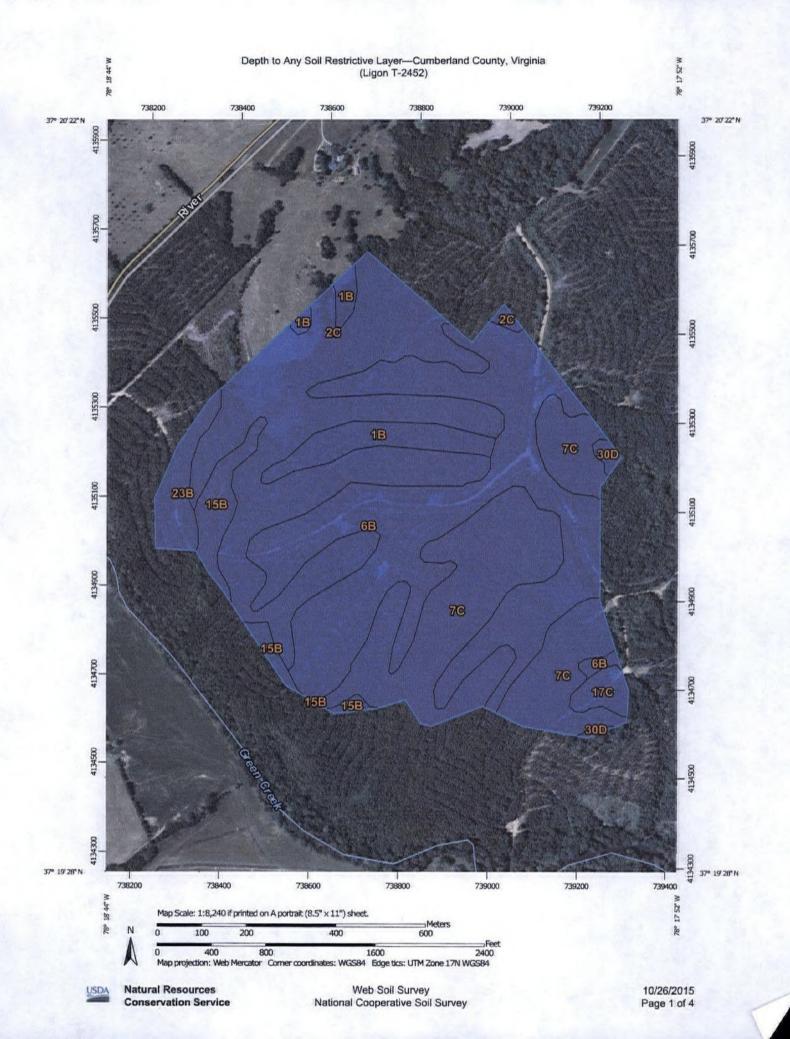
Date

Landowner's Signature

Date







MAP LEGEND MAP INFORMATION Not rated or not available The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Area of Interest (AOI) Water Features Warning: Soil Map may not be valid at this scale. Solls Streams and Canals Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line Soil Rating Polygons Transportation 0 - 25 Rails +++ placement. The maps do not show the small areas of contrasting 25 - 50 soils that could have been shown at a more detailed scale. Interstate Highways 50 - 100 US Routes Please rely on the bar scale on each map sheet for map 100 - 150 measurements. Major Roads 150 - 200 Source of Map: Natural Resources Conservation Service Local Roads Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857) > 200 Background Not rated or not available Aerial Photography 100 Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Lines projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 0 - 25 Albers equal-area conic projection, should be used if more accurate 25 - 50 calculations of distance or area are required. 50 - 100 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. 100 - 150 Solf Survey Area: Cumberland County, Virginia Survey Area Data: Version 11, Dec 11, 2013 150 - 200 > 200 Soil map units are labeled (as space allows) for map scales 1:50,000 Not rated or not available or larger. Soil Rating Points Date(s) aerial images were photographed: May 10, 2010-Jul 4, 0 - 25 2010 10 25 + 50 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background 1 50 - 100 imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. 100 - 150 -150 - 200 100 -> 200



Depth to Any Soil Restrictive Layer

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
1B	Appling sandy loam, 2 to 7 percent slopes	>200	8.8	4.6%
2C	Appling-Helena complex, 7 to 15 percent slopes	>200	57.2	29.8%
6B	Cecil sandy loam, 2 to 7 percent slopes	>200	63.8	33.2%
7C	Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded	>200	46.6	24.2%
15B	Dogue fine sandy loam, 2 to 7 percent slopes, rarely flooded	>200	6.7	3.5%
17C	Enon-Helena complex, 7 to 15 percent slopes, very stony	>200	2.6	1.3%
23B	Mattaponi-Appling complex, 2 to 7 percent slopes	>200	5.4	2.8%
30D	Pacolet-Wateree complex, 15 to 25 percent slopes	>200	1.0	0.5%
Totals for Area of Inter	rest	L	192.1	100.0%

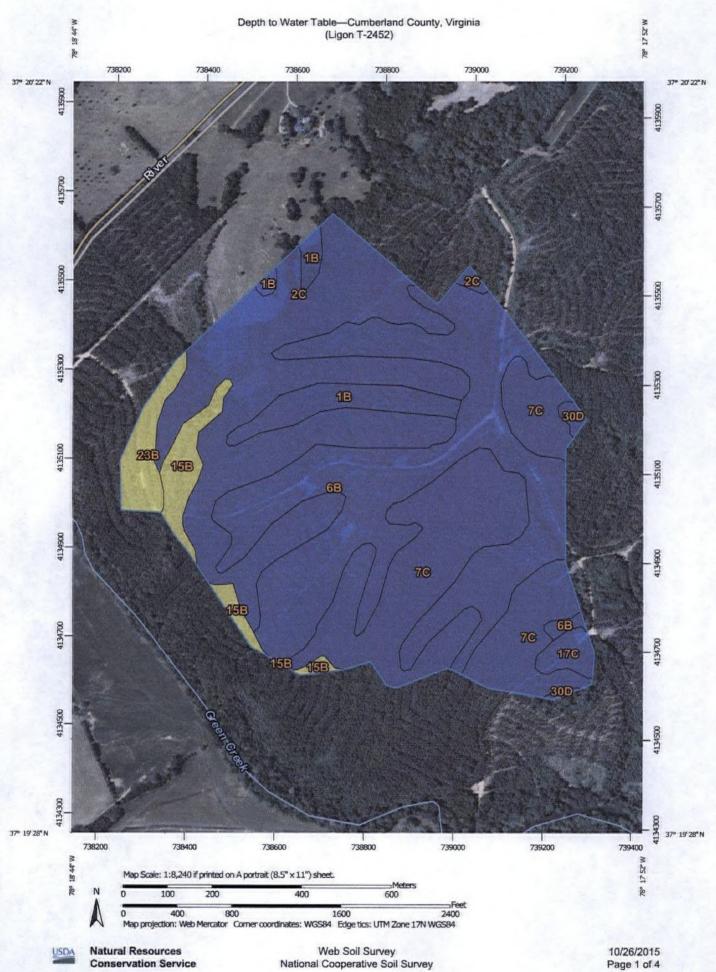
Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.





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Depth to Water Table

Depth to Water Table— Summary by Map Unit — Cumberland County, Virginia (VA049)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
1B	Appling sandy loam, 2 to 7 percent slopes	>200	8.8	4.6%
2C	Appling-Helena complex, 7 to 15 percent slopes	>200	57.2	29.8%
6B	Cecil sandy loam, 2 to 7 percent slopes	>200	63.8	33.2%
7C	Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded	>200	46.6	24.2%
15B	Dogue fine sandy loam, 2 to 7 percent slopes, rarely flooded	69	6.7	3.5%
17C	Enon-Helena complex, 7 to 15 percent slopes, very stony	>200	2.6	1.3%
23B	Mattaponi-Appling complex, 2 to 7 percent slopes	91	5.4	2.8%
30D	Pacolet-Wateree complex, 15 to 25 percent slopes	>200	1.0	0.5%
Totals for Area of Inter	rest	'	192.1	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

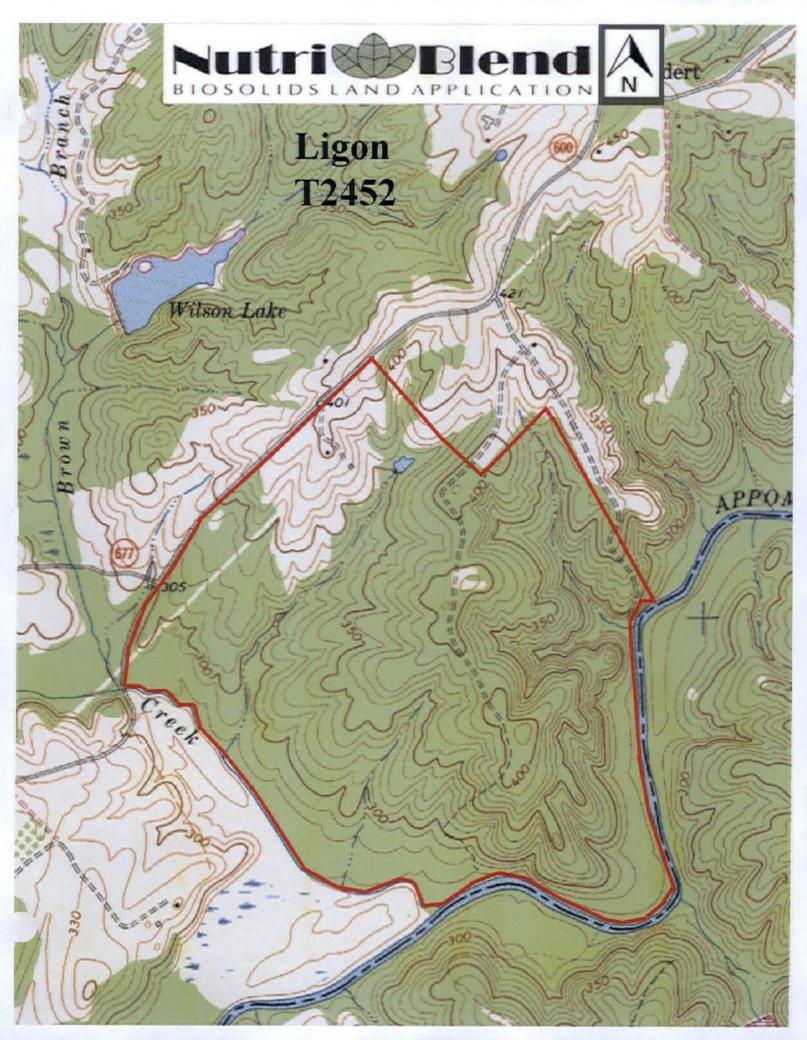
This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified





Ligon FARM Tract 2452 Field Data Sheet

Field	Total	Field Coordinates	
	Acres	Latitude	Longitude
1	Acres 578.2	Latitude 37.332882	-78.300174
	578.2		

Water Shed Code JA16

Site Type Forest

Tax ID 106-A-7,8,9

Agricultural Practice: See Nutrient Management Plan for Yearly crop rotation USDA Soil Map depth to bedrock & water table when applicable in Nutrient Management Pla Owner Woodfin and Ann Ligon

